ROUGH DRAFT: for Discussion Only Outline of Agencies Biological Goals and Objectives San Joaquin River Tributaries

Framework:

- 1. Manage as a System
 - a. Ecological Fair Share
 - i. Each Libutary must be viable for Key Species and Processes
 - ii. ch Tributary must contribute to overall system ives
 - b. Le and Biological Communities to help reach overall

management

- c. Manual of the control of the cont
- d. Nata e of science"
- 2. Adaptive Ma
 - a. AM B.
 i. Co. For complete knowledge
 - ii. dy modified
 - 1. riginal"
 - 2. 1 vai
 - 3. Ne es and rebuild biodiversity
 - iii. Syst
 - 1. Clima.
 - 2. Social C manageme
 - 3. Invasive Spe
 - 4. Implementation on-going (over time)
 - 5. Tipping points, I
 - b. AM Implementation
 - i. Distributed Representation
 - 1. Monitoring
 - 2. Synthesis
 - 3. Communication
 - 4. Re-evaluation
 - ii. Based on science
 - iii. Fosters regional knowledge and newardship
 - iv. Need to Clarify Range of "Adaptive" Actions
- 3. Keystone Species/ Biological Communities
 - a. Keystone Species
 - i. Fall-run Chinook Salmon
 - 1. Protective/supportive/viable of all life stages (viability based on Lindley et. al)
 - a. Juvenile production
 - b. juvenile passage to, through and out of Delta

c. Adult attraction and passage d. Temperature issues 2. Doubling Goal is mandated a. Based on Natural production b. Need to Define Doubling Goal for each Tributary c. Need ecological processes that can support **Doubling Goal** ii. Steelhead Protective/supportive/viable of all life stages a. Juvenile production juvenile passage to, through and out of Delta Adult attraction and passage Over Summering & Temperature issues and Runs ts nt and Future Conditions 4. Species of Specia a. Riparian Br b. Sacramento S c. Swainson Hawl d. Pacific Lamprey e. Green and White S Spring-run Chinook 5. Ecosystem Functions and Serv a. Flow (Master Variable low Criteria) i. "unnatural" hydrog leases over short periods, large steps, e ii. Fish Passage (fl Ecological and ab non-natives iii. (flow related) Temperature (flow rel iv. b. Other-than-flow Stressors (flow may s i. Temperature (non-flow) ii. Contaminants iii. Fish Passage (non-flow) iv. Entrainment in diversions, etc Salinity gradients (saltier water coming from the SJR meeting fresher Sac River water flowing across Delta vi. Ecological and abiotic conditions favoring non-natives (non-flow) vii. Straying Rates and Genetics